

Conceptual Model for e-Learning of Kolej Poly- Tech MARA

A project submitted to Dean of Research and Postgraduate Studies Office in partial

Fulfillment of the requirement for the degree

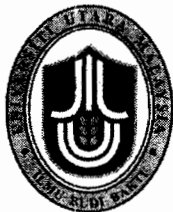
Master of Science (Information Technology)

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by

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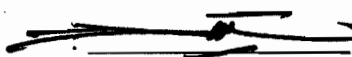
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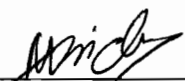
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ABSTRAK (BAHASA MALAYSIA)

Pembelajaran Elektronik adalah salah satu kaedah yang telah digabungkan dengan Teknologi Maklumat, telah diintegrasikan di dalam program universiti. Ada beberapa faktor yang perlu dipertimbangkan semasa membangunkan atau melaksanakan sesuatu program yang ditawarkan oleh pihak universiti. Pada masa kini, pembelajaran elektronik merupakan satu alat teknologi yang semakin popular terutama kepada pendidikan tinggi. Pembelajaran elektronik merupakan sebuah alat pembelajaran atas talian untuk pendidikan tinggi dan pekerja di sesebuah syarikat. Namun begitu, masih terdapat beberapa institusi pengajian tinggi yang tidak menggunakan pembelajaran elektronik di dalam sistem pembelajaran. Projek ini akan menumpukan pada pembangunan prototaip pembelajaran elektronik untuk kakitangan di Kolej Poly-Tech MARA(KPTM). Projek ini akan menggunakan dua metodologi untuk melaksanakan projek ini. Metodologi yang pertama ialah metodologi kajian iaitu menggunakan Aliran Kerja Proses Pembangunan Sistem. Manakala metodologi yang kedua ialah metodologi sistem iaitu menggunakan Metodologi Prototaip. Tujuan utama projek ini adalah untuk mencadangkan sebuah model konseptual untuk membangunkan pembelajaran elektronik berdasarkan kepada keperluan pekerja. Pada akhir projek ini, sebuah sistem prototaip akan dibangunkan berdasarkan keperluan dan penerimaan pengguna dengan menggunakan sistem yang telah sedia ada pada masa kini.

Kata kunci: *Pembelajaran Elektronik, Teknologi Maklumat, Sistem Prototaip*

ABSTRACT (ENGLISH)

E-learning, one of the tools emerged from information technology, has been integrated in many university programs. There are several factors that need to be considered while developing or implementing university curriculums that offer e-learning based courses. Nowadays, e-Learning is the most popular tools in the education especially for higher education. E-Learning is an online education tools for higher education and people in corporations. However, certain of the higher institutions did not use an e-Learning in the education. This project will focus on developing a prototype of e-Learning for staff in Kolej Poly Tech MARA (KPTM). This project will use two methodologies to implement this project. The first methodology is the research methodology using The Workflow of the System Development Process. While the second methodology for the methodology system using The Prototype Methodology. The aim of this project is proposes to address a conceptual model for designing and developing an adaptive e-Learning system that main application is the identification of educational needs of employees. At the end of this project, a prototype will be developed based on requirements and user acceptance using an existing e-Learning system.

Keywords: *E-Learning, Information technology, Prototype System*

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LIST OF ABBREVIATIONS

KPTM	Kolej Poly-Tech MARA
IT	Information Technology
UML	Unified Modeling Language

CHAPTER 1

INTRODUCTION

1.1 Introduction

E-learning is one of the most promising and growing issues in the information society nowadays. The growth of the Internet is bringing online education to people in corporations, institutions of higher learning, government and other sectors. Although the use of classical text books is still massive, there are also growing uses of web based e-books, which means the introduction of new e-learning standards has begun.

Basically, student taking part in a course has an environment for communicating with teachers and other students. A calendar which includes a basic schedule for the whole activities in the course also has an environment to communicate. This calendar is a default itinerary which is created by the instructional designers and the teachers of the course. The student can access to several learning resources (documents, exercises, etc.) accordingly to such itinerary.

However, e-Learning is still not being used in the certain higher institution. In this project, Kolej Poly-Tech MARA (KPTM), Alor Setar has been selected as the client. KPTM do not have online education in order to help students and lecturers to

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